FIG. 1

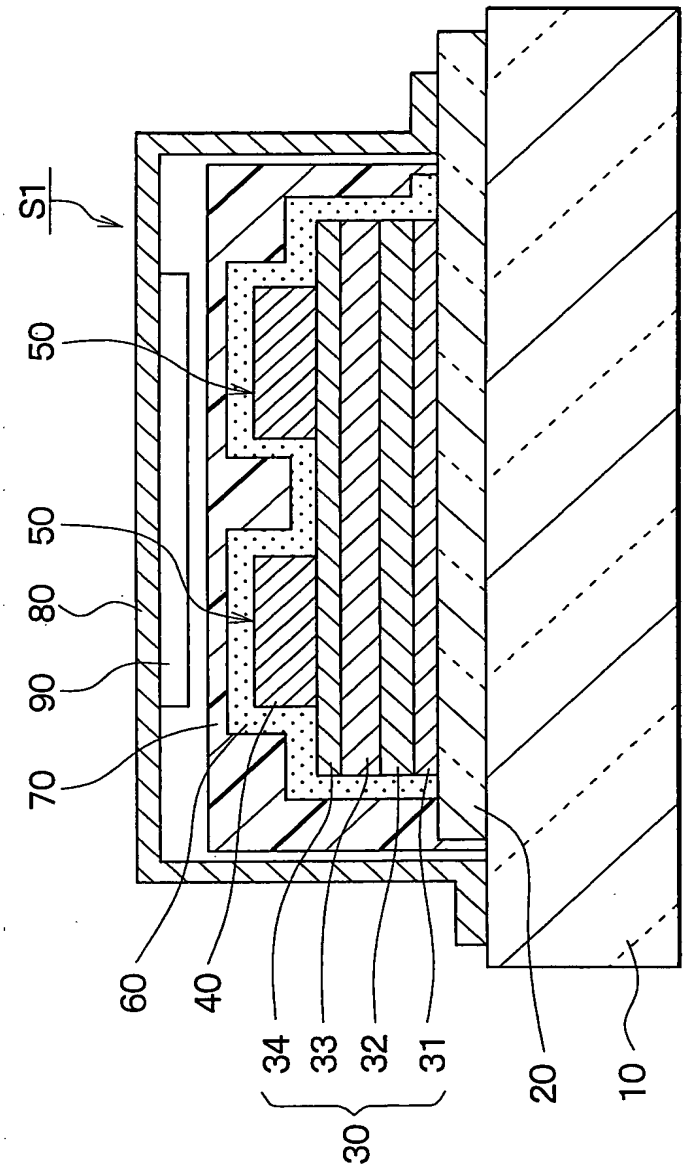


FIG. 2

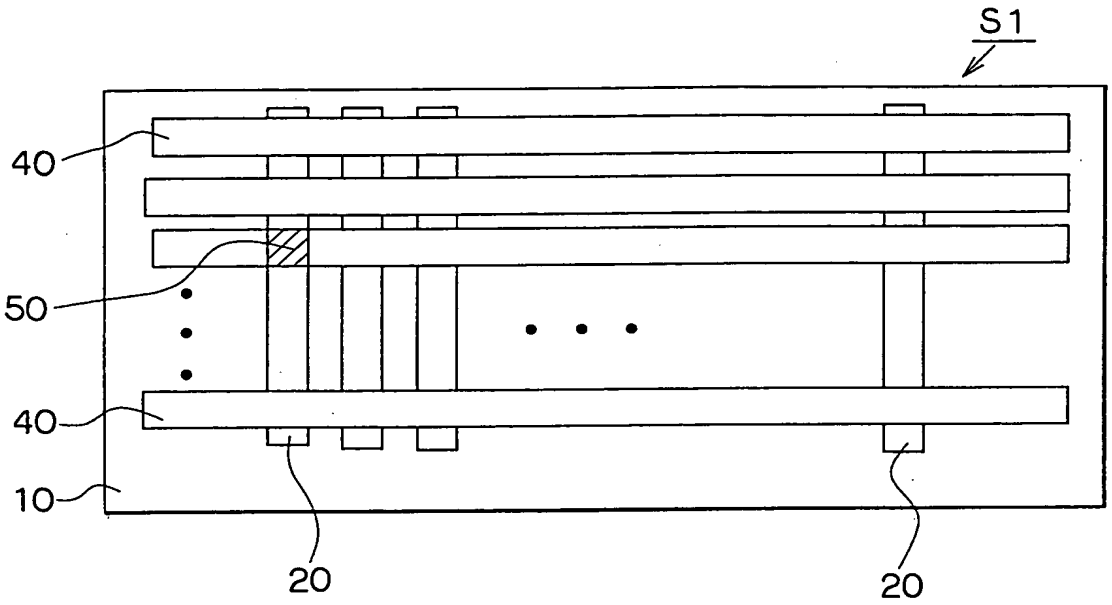


FIG. 3

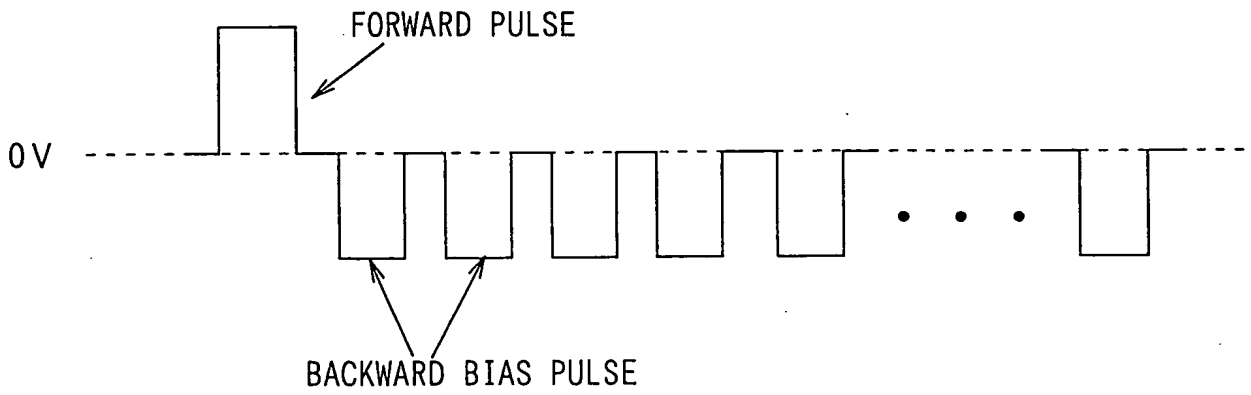


FIG. 4

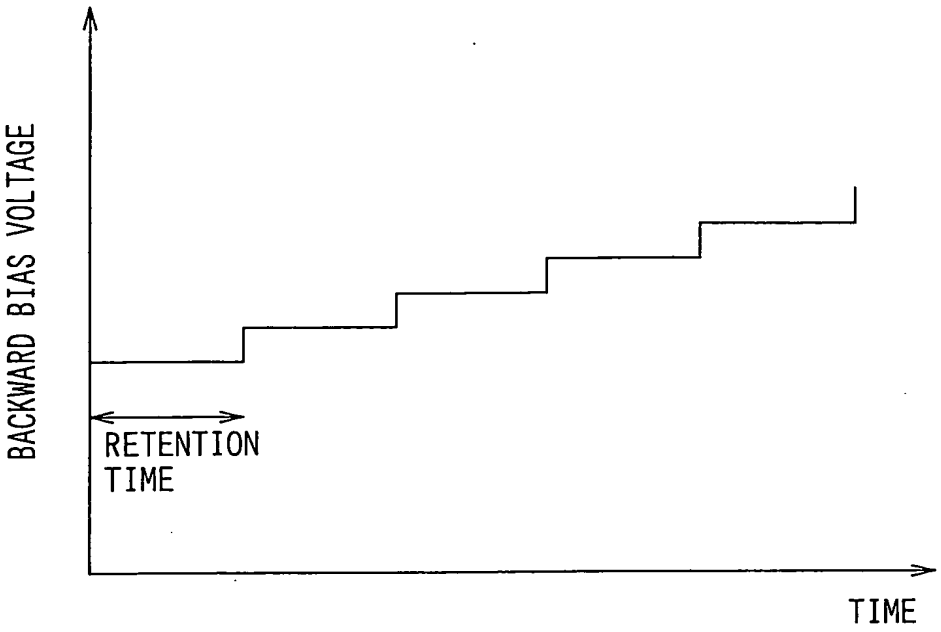

BACKWARD BIAS VOLTAGE
RETENTION TIME
TIME

FIG. 5

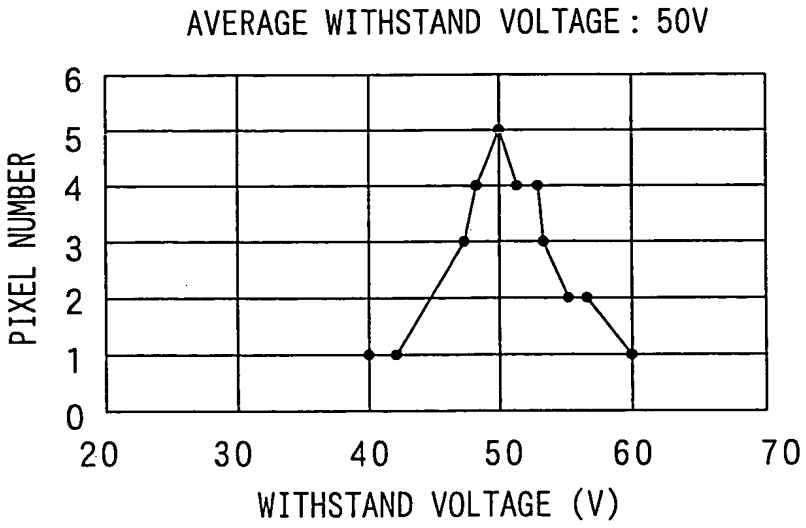

AVERAGE WITHSTAND VOLTAGE : 50V
PIXEL NUMBER
0
1
2
3
4
5
6
20
30
40
50
60
70
WITHSTAND VOLTAGE (V)

FIG. 6A

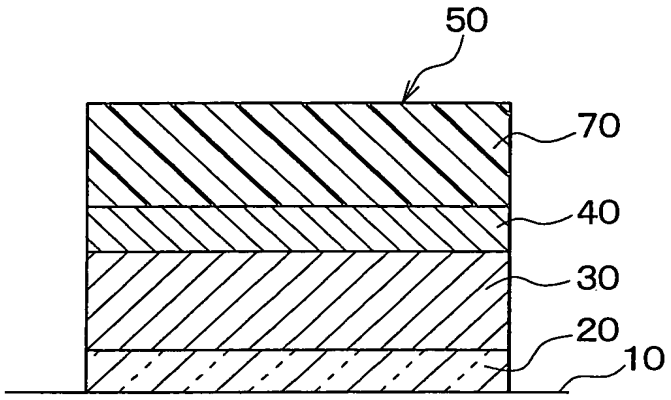


FIG. 6B

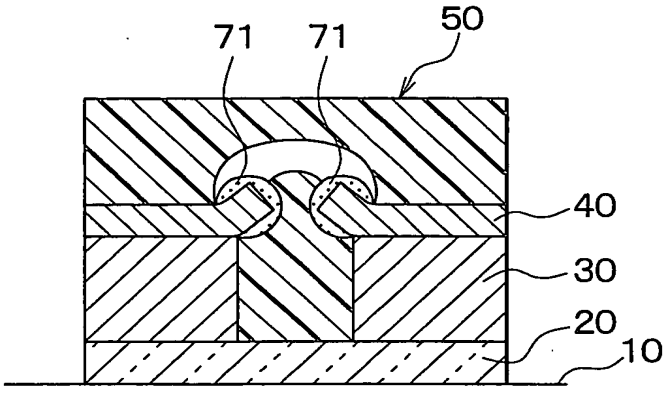
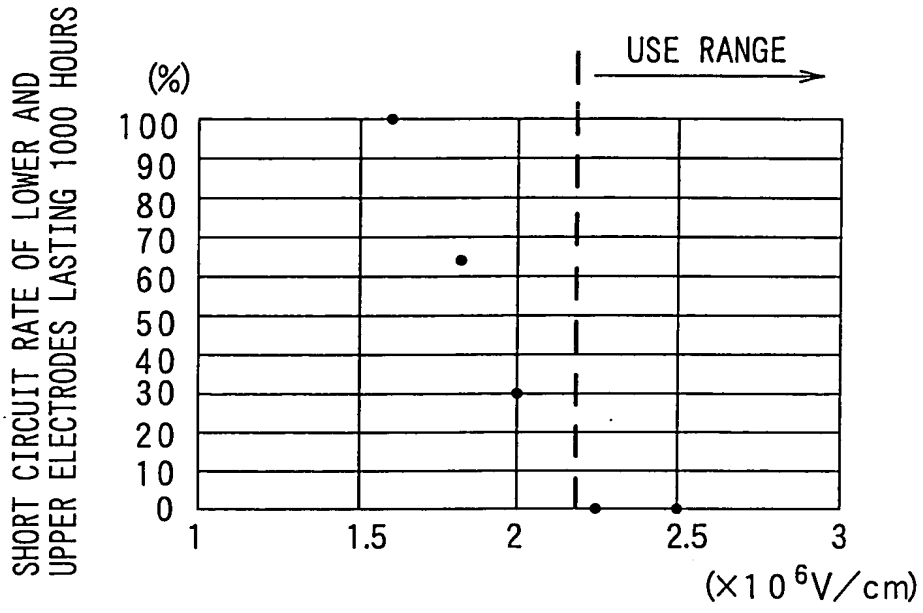
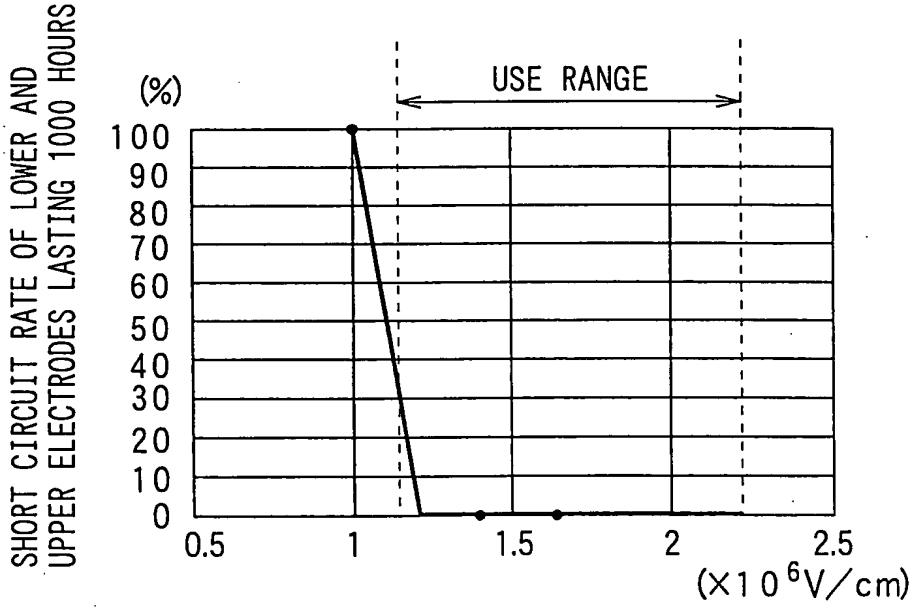


FIG. 7



BACKWARD BIAS VOLTAGE Vr/UPPER ELECTRODE THICKNESS Da=Xa

FIG. 8



BACKWARD BIAS VOLTAGE Vr/ORGANIC LAYER THICKNESS Dy=Ya

FIG. 9

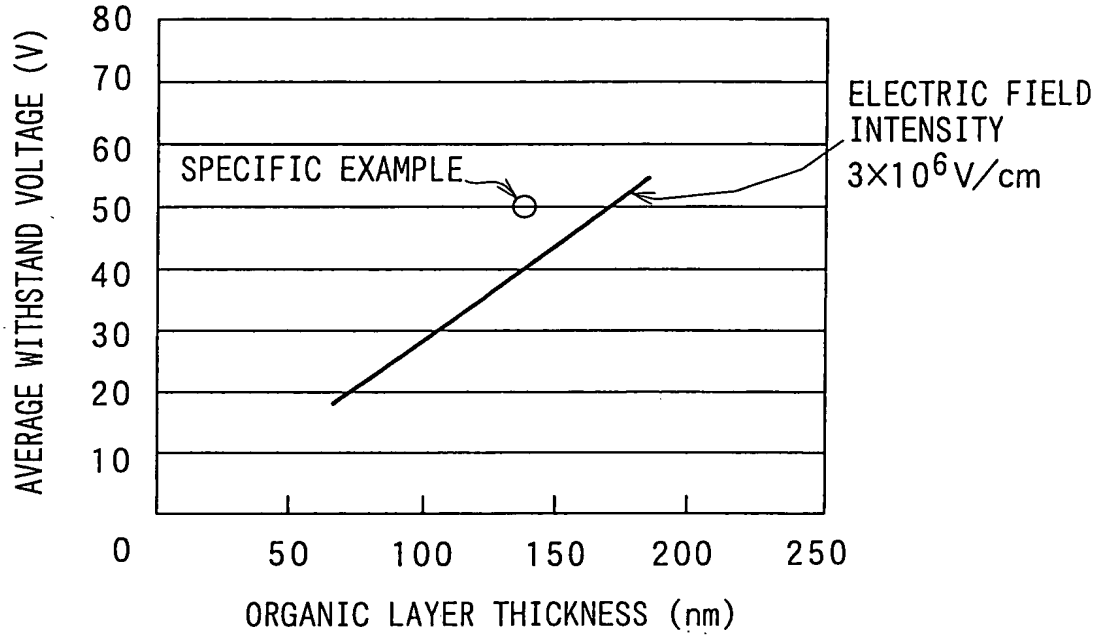

AVERAGE WITHSTAND VOLTAGE (V)
80
70
60
50
40
30
20
10
0
50
100
150
200
250
ORGANIC LAYER THICKNESS (nm)
SPECIFIC EXAMPLE
ELECTRIC FIELD INTENSITY
3×10^6 V/cm

FIG. 10

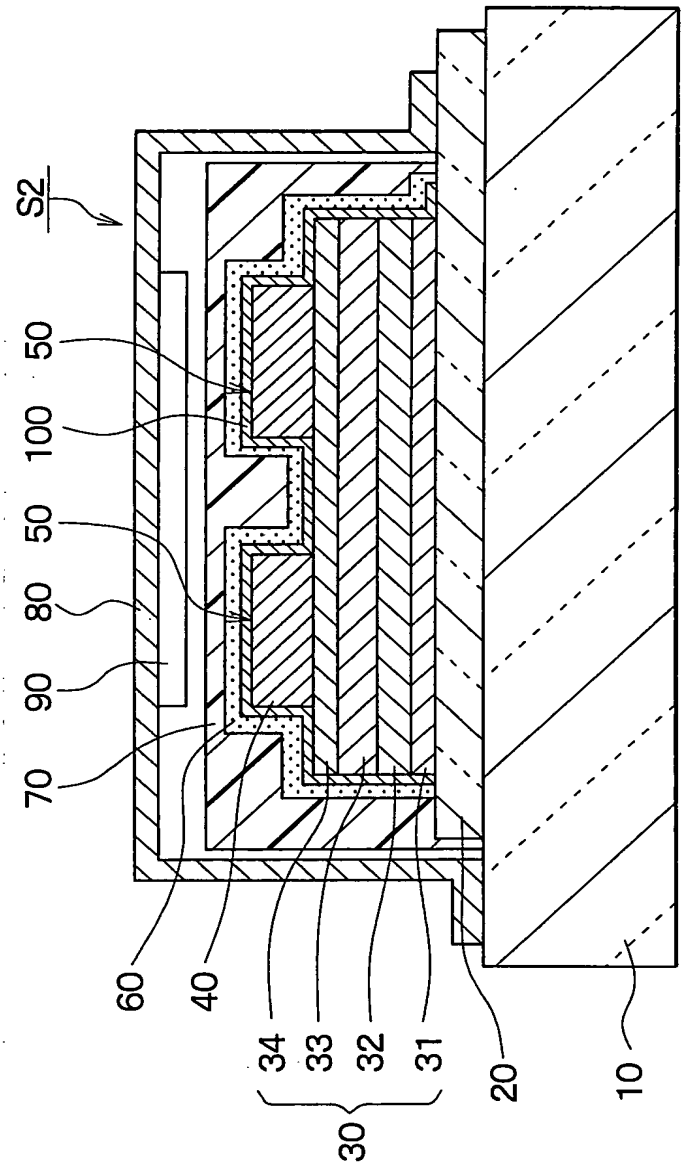


FIG. 11

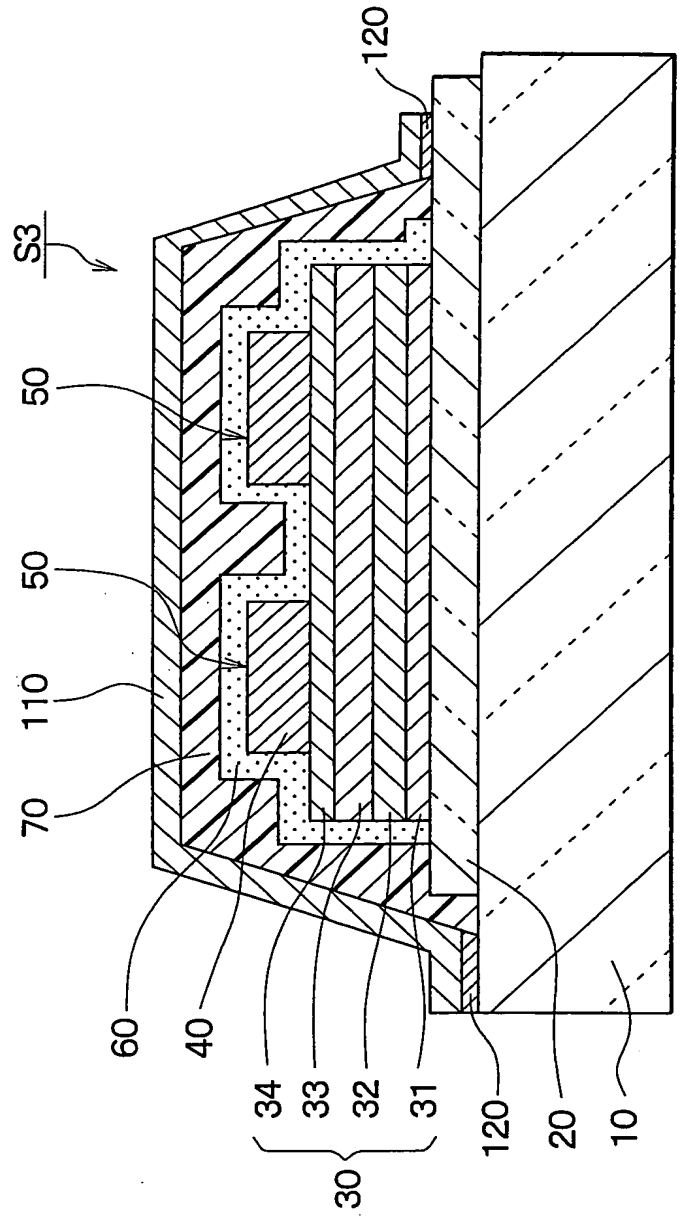


FIG. 12

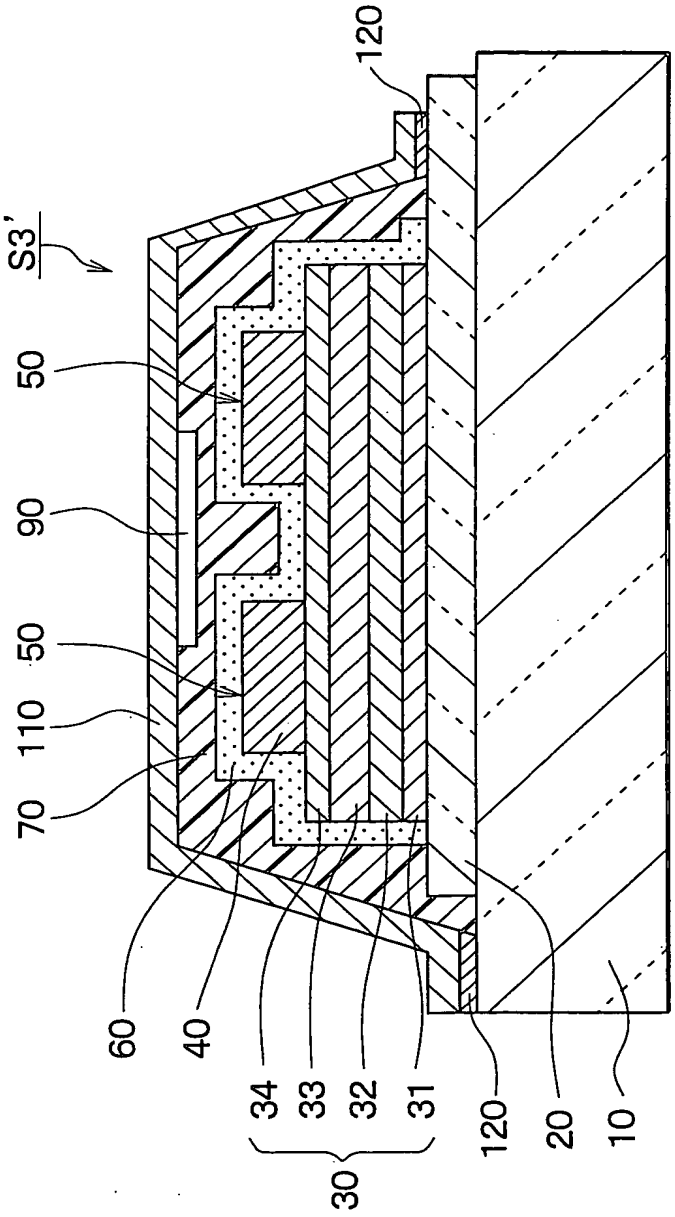


FIG. 13

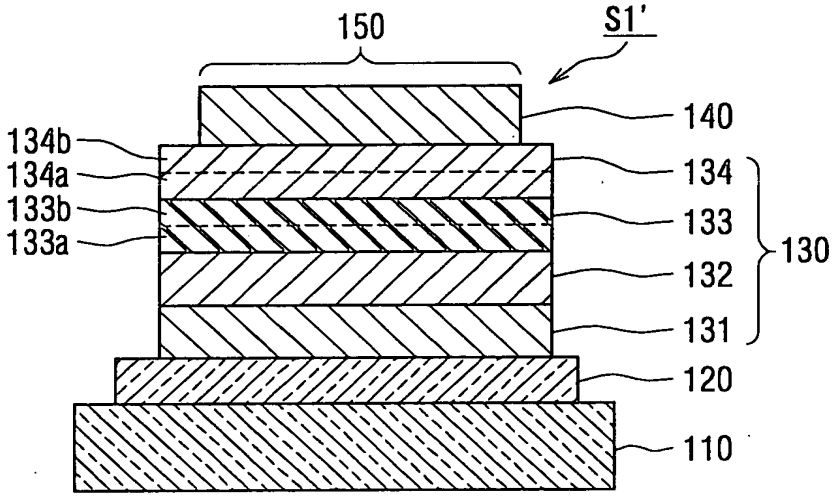


FIG. 14A

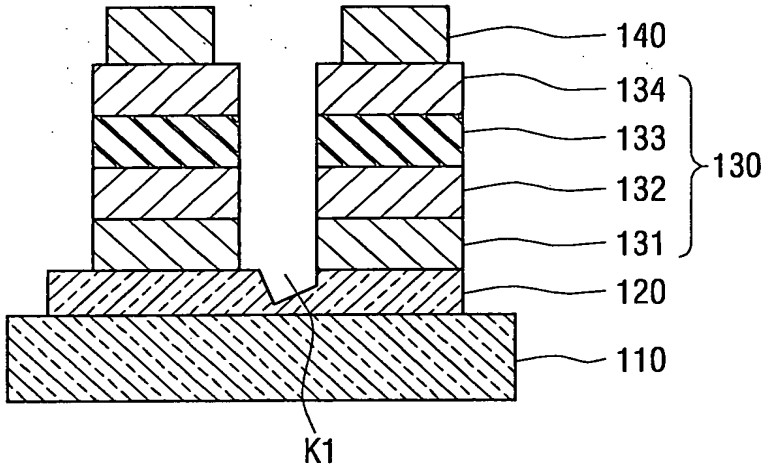


FIG. 14B

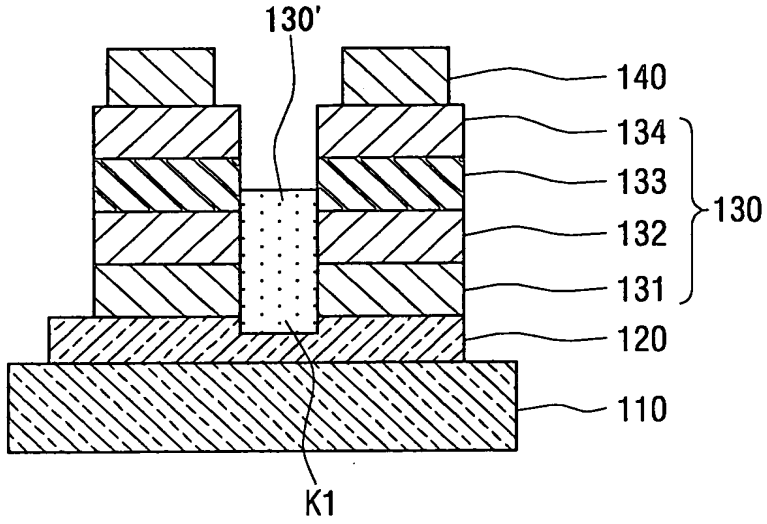
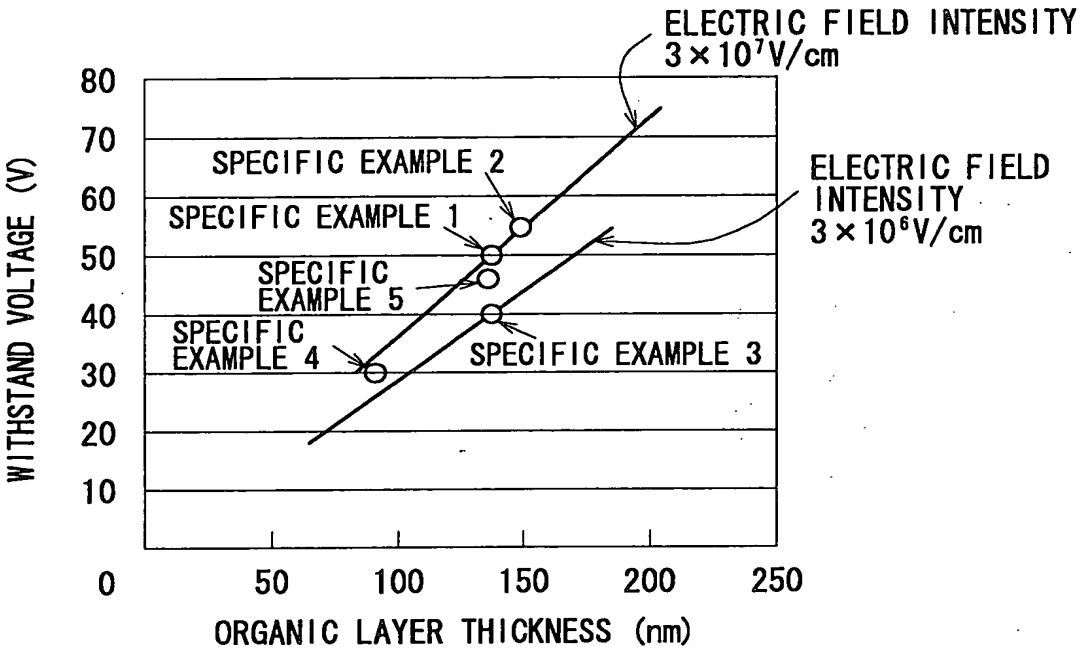


FIG. 15

ITEM	PREFERABLE RANGE	SPECIFIC EXAMPLE 1	SPECIFIC EXAMPLE 2	SPECIFIC EXAMPLE 3	SPECIFIC EXAMPLE 4	SPECIFIC EXAMPLE 5
LOWER ELECTRODE SURFACE ROUGHNESS: Ra (nm)	$Ra \leqq 2.0$	1.2	1.2	1.8	0.6	1.2
ORGANIC LAYER THICKNESS: Dy (nm)		135	143	135	85	135
UPPER ELECTRODE THICKNESS: Da (nm)		80	70	60	60	80
BACKWARD BIAS VOLTAGE: Vr (V)		20	20	17	14	18
WITHSTANDING PRESSURE OF ORGANIC LAYER: Vd (V)		50	53	40.5	30	46
ELECTRIC FIELD INTENSITY: Vd/Dy (V/nm)	$Vd/Dy \geqq 3\times10^6$	3.7×10^6	3.7×10^6	3.0×10^6	3.5×10^6	3.4×10^6
Vr/Da: Xa (V/cm)	$Xa \geqq 2.2\times10^6$	2.5×10^6	2.9×10^6	2.8×10^6	2.3×10^6	2.3×10^6
Vr/Da: Xa (V/cm)	$Xa \geqq 2.2\times10^6$	2.5×10^6	2.9×10^6	2.8×10^6	2.3×10^6	2.3×10^6
Vr/Dy: Ya (V/cm)	$1.2\times10^6 \leqq Ya \leqq 2.2\times10^6$	1.5×10^6	1.4×10^6	1.2×10^6	1.6×10^6	1.3×10^6

FIG. 16


ELECTRIC FIELD INTENSITY
3×10⁷V/cm
ELECTRIC FIELD
INTENSITY
3×10⁶V/cm
SPECIFIC EXAMPLE 2
SPECIFIC EXAMPLE 1
SPECIFIC
EXAMPLE 5
SPECIFIC
EXAMPLE 4
SPECIFIC EXAMPLE 3
WITHSTAND VOLTAGE (V)
80
70
60
50
40
30
20
10
0
50
100
150
200
250
ORGANIC LAYER THICKNESS (nm)